

Data Input
Sensitivity Analysis
Step 1
Step 2a
Step 2b
Step 3
Decision Making

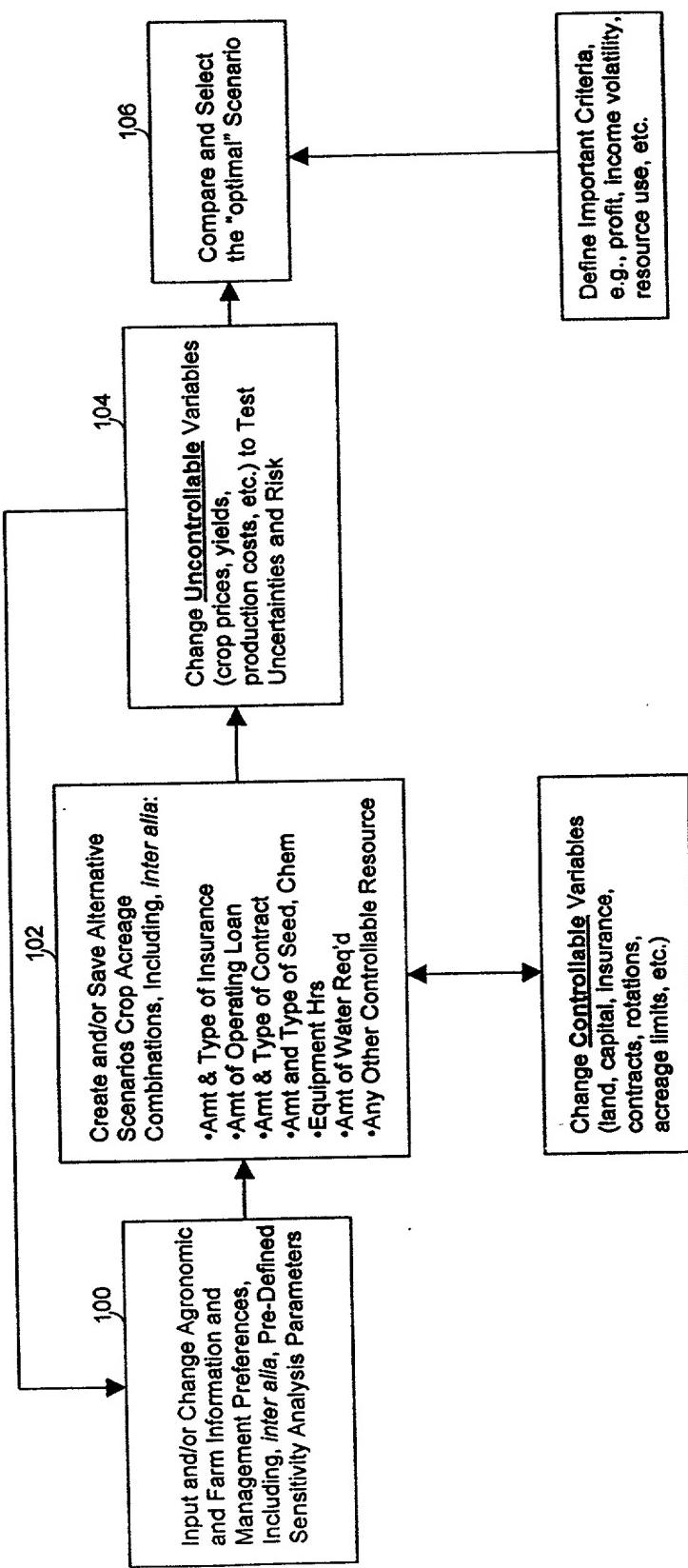


FIGURE 1

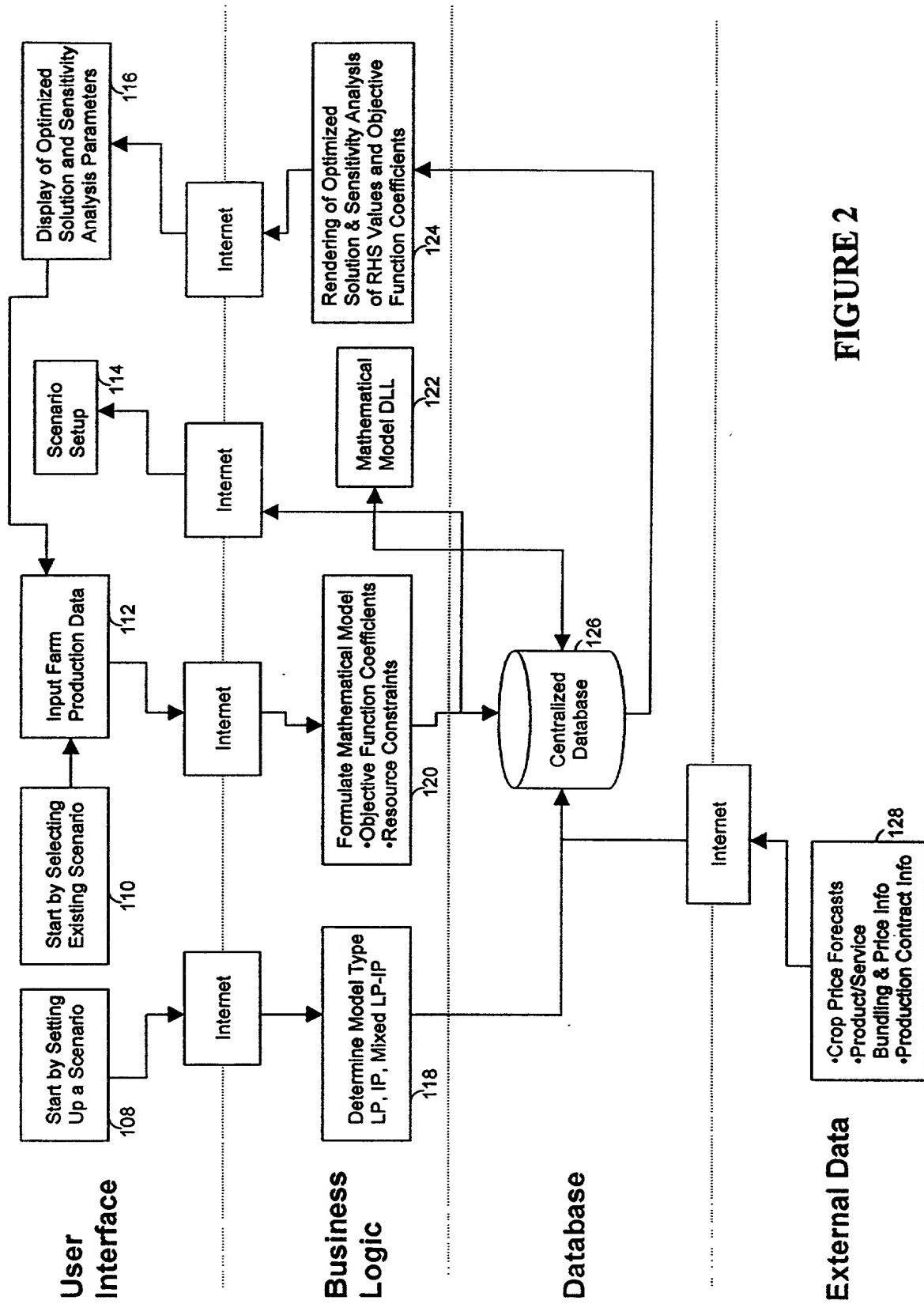


FIGURE 2

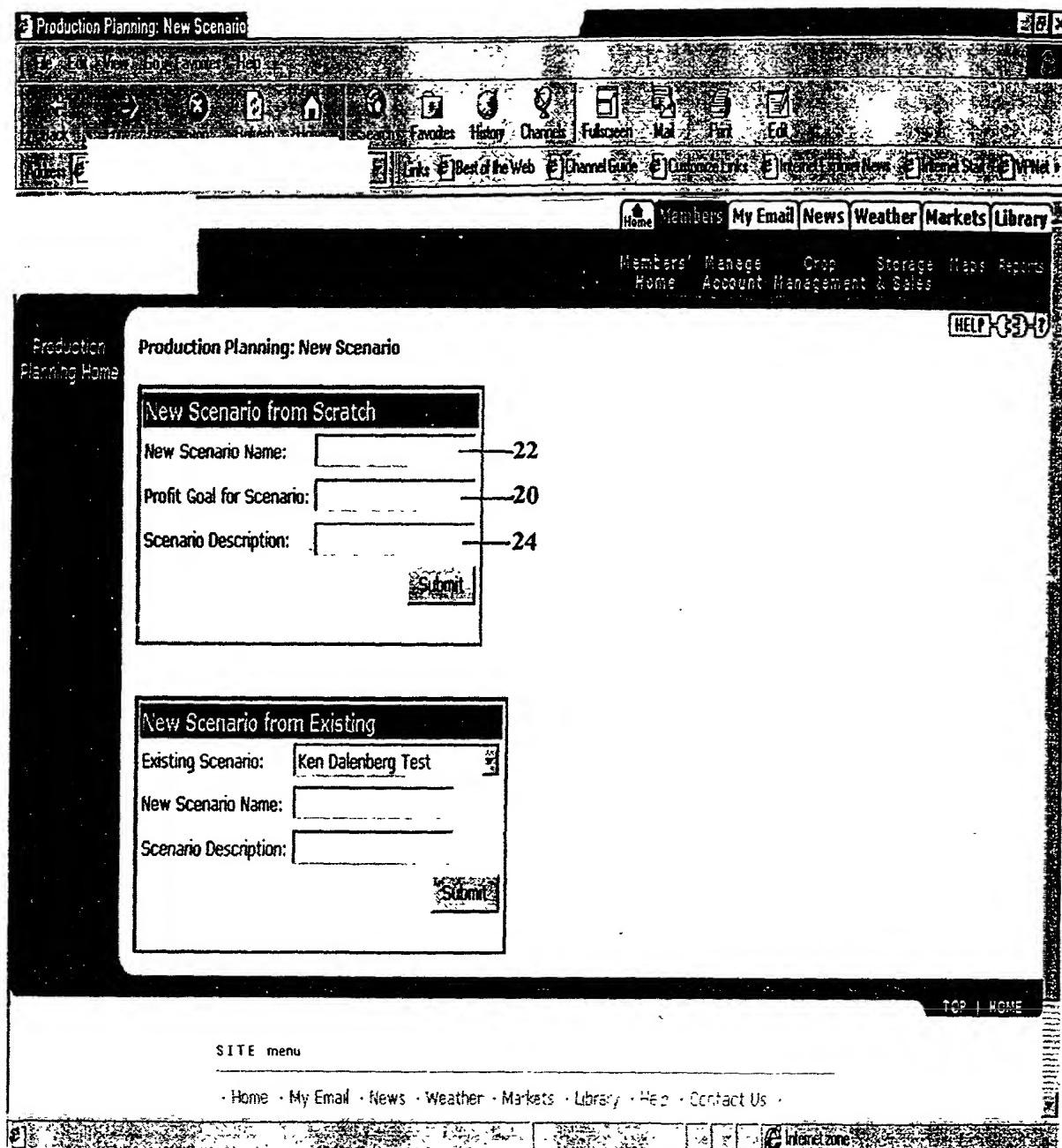


FIGURE 3

Production Planning

Scenarios	Description	Add
Ken Dalenborg Test	Testing Dalenborg Data	
Dup of Ken Dalenborg Test	Testing full duplication of CMS-based scenario.	
Testing Field Assignments	How about that!	
Save this scenario	error in addition of Remaining Op Capital	
Garys Scenario	Garys Test Scenario	

FIGURE 4

Production Planning: Add Crop

Select Crops	
Cropping programs available for use:	Cropping programs currently selected in this scenario:
<input type="checkbox"/> Corn Program 1998	<input checked="" type="checkbox"/> Corn Program 1997
<input type="checkbox"/> Soybean Program 1998	<input checked="" type="checkbox"/> Soybean Program 1997
<input type="checkbox"/> Soiltest Program	<input checked="" type="checkbox"/> Soiltest Program
26	28
<input type="button" value="Exit Production"/>	

FIGURE 5

Production Planning: Add Field

Select Fields	
Fields currently selected in this scenario:	
Dean: 3800G5	<input type="checkbox"/>
Dean: 3800G6	<input type="checkbox"/>
Dean: 3800G7	<input type="checkbox"/>
Dean: 3800G8	<input type="checkbox"/>
Dirst: North 80	<input type="checkbox"/>
Dirst: South 75	<input type="checkbox"/>
Hodge: Hodge 160	<input type="checkbox"/>
Howe: Howe	<input type="checkbox"/>
James: James North 54	<input type="checkbox"/>
James: James South 34	<input type="checkbox"/>
Bevan: North 80	<input checked="" type="checkbox"/>
Bevan: South 80	<input checked="" type="checkbox"/>
Heartland: Heartland East	<input type="checkbox"/>
Heartland: Heartland West	<input type="checkbox"/>
Hodge: Hodge 42	<input type="checkbox"/>
Hodge: Hodge S 84	<input type="checkbox"/>
Hume: Hume Back 50	<input type="checkbox"/>
Hume: Hume Front 40	<input type="checkbox"/>
Zindars: Zindars East 27	<input type="checkbox"/>
Zindars: Zindars West 31	<input type="checkbox"/>

FIGURE 6

Production Planning: Edit Crop-Field Assignments

	Edit Crop-Field Assignments		
	Com Program 1997	Soybean Program 1997	Soiltest Program
Bevan: North 80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bevan: South 80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heartland: Heartland East	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heartland: Heartland West	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hodge: Hodge 42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hodge: Hodge S 84	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hume: Hume Back 50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hume: Hume Front 40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zindars: Zindars East 27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zindars: Zindars West 31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

FIGURE 7

Production Planning: Acreage Constraints

Crop or Group Name	Acreage Constraints	
	Minimum Acreage	Maximum Acreage
Corn Program 1997	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none
Soybean Program 1997	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none
Soiltest Program	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none
Corn Group	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> 50	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none
Soybean Group	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> 50	<input type="checkbox"/> Enforce: <input checked="" type="checkbox"/> none

36

32

34

FIGURE 8

Production Planning: Add Crop Group

Add Crop Group

Group Name:	<input type="text"/>
Crops available:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Crops currently selected in this group:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

FIGURE 9

Production Planning: Add Contract

Add Contract

Contract Name:	38
Contract Crop:	Corn Program 1997
Contract Price:	
Contract Quantity (Acres):	
Is this a firm contract?	Yes
Upper Bound on Contract Quantity:	20 %

FIGURE 10

Production Planning: Add Resource

Select Resource

Resources you have used in other scenarios:	Resources currently selected in this scenario:
Storage	Operating Capital 40
	Land 42
	Water

Add a Resource

New resource name:	
Amount of resource available:	
New resource UOM:	

FIGURE 11

Production Planning Resource: Water

Water: Availability	
Amount of Water available	150000

Water: Usage	
Amount of Water used by Corn Program 1997	175
Amount of Water used by Soybean Program 1997	200
Amount of Water used by Soiltest Program	0

FIGURE 12

Production Planning: Edit Field Differences

Edit Field Differences		
Field:	Hodge: Hodge 42	
Crop Program:	Corn Program 1997	
Resource	Default Value	Override
Water	175	175
Storage	130	140

Save

FIGURE 13

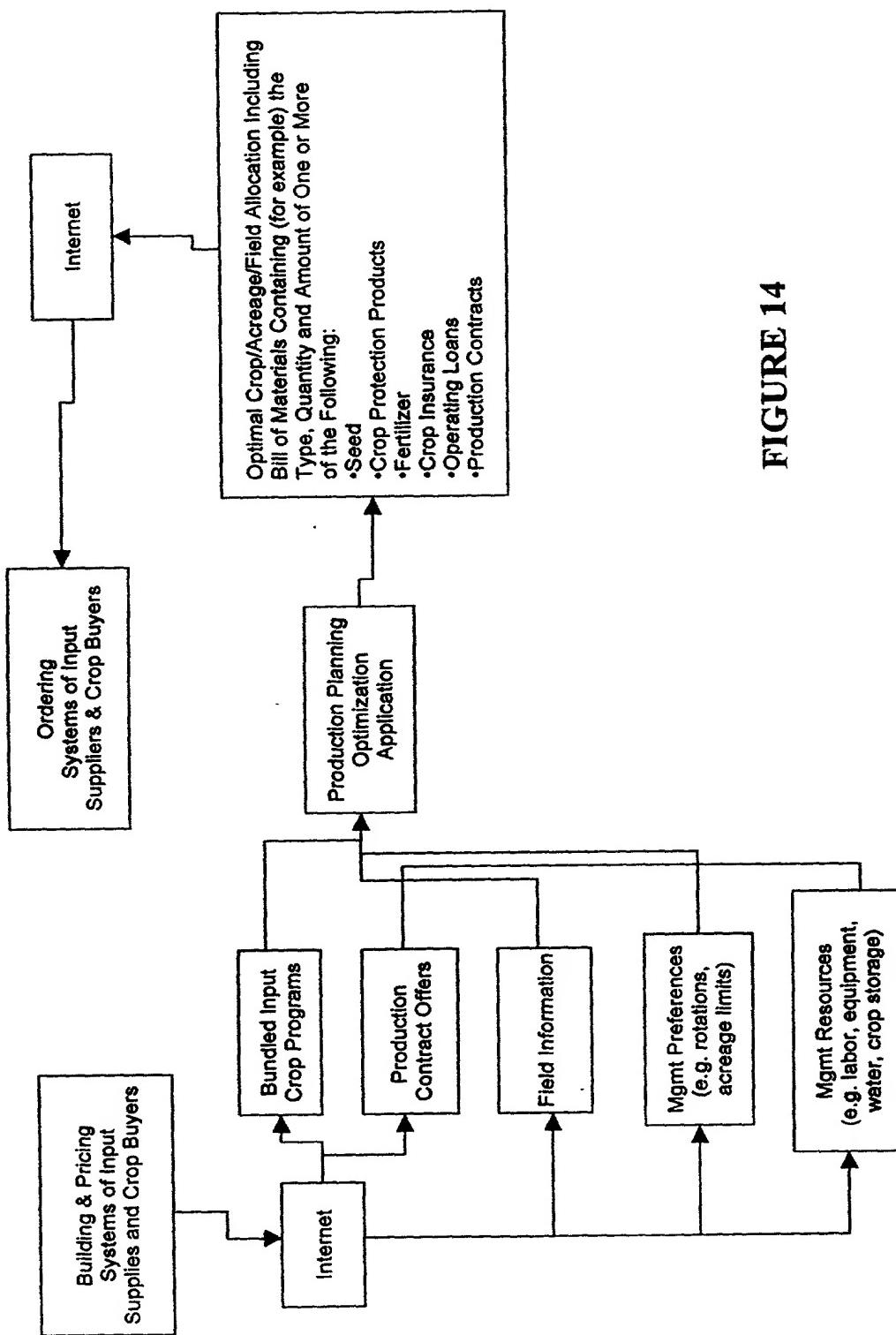


FIGURE 14

Production Planning Scenario: Gary's Scenario

Scenario Setup

Crop Programs				
Name	Price	Yield	Prod Cost	Gross Income per Acre
Corn Program 1997	\$2.80	155	\$200.00	\$37.35
Soybean Program 1997	\$5.15	49	\$215.00	\$158.50
Corn Program 1998	\$2.90	165	\$220.00	\$18.00
Soybean Program 1998	\$5.20	44	\$210.00	

Fields				
Name	Size			
Bayan: North 00	60			
Dean: 3800G8	51			
Dean: 3800GS	81			
Dirst: South 75	76			
Heartland: Heartland West	44			
Heartland: Heartland East	30			
Howe: Howe	79			

Acreage Constraints				
Name	Min	Max		
Nat'l	20	200		
Corn Program 1997	no minimum	200		
Total Corn				

Crop Contracts				
Name (Crop)	Price	Quantity	Firm	

Resources				
Name	Crop-Resource Usage	Farm-Differences	Available	
Operating Capital			\$500,000.00	
Land			441	

FIGURE 15

Production Planning Scenario: Gary's Scenario

Scenario Results:

Gross Income: \$38,876.00 [View Graph](#)

Crop Programs				
Name	Acres	Price	Yield	Gross Income
Corn Program 1997	30	\$2.80	155	\$84,020.00
Soybean Program 1997	250	\$5.15	49	\$9,337.50
Corn Program 1998	161	\$2.90	165	\$25,518.50
Soybean Program 1998	0	\$5.20	44	\$0.00

Fields				
Name	Size	Crop Planted		
Bayan: North 00	60	Corn Program 1998		
Dean: 3800G8	51	Soybean Program 1997		
Dean: 3800GS	81	Corn Program 1998		
Dirst: South 75	76	Soybean Program 1997		
Heartland: Heartland West	44	Soybean Program 1997		
Heartland: Heartland East	30	Corn Program 1997		
Howe: Howe	79	Soybean Program 1997		

Limits				
Name	Limit			
Corn Program 1997	more than 20 acres			
Corn Program 1997	less than 90 acres			
Total Corn	less than 200 acres			

Contracts				
Name (Crop)	Filled	Gross Income		

Resources				
Name	Crop-Resource Usage	Farm-Differences	Unused	
Operating Capital	Used		\$385,730.00	
Land	441		0	

FIGURE 16

Production Planning Scenario: Garys Scenario

Scenario Results:

New Text

Gross Income: \$38,876.00

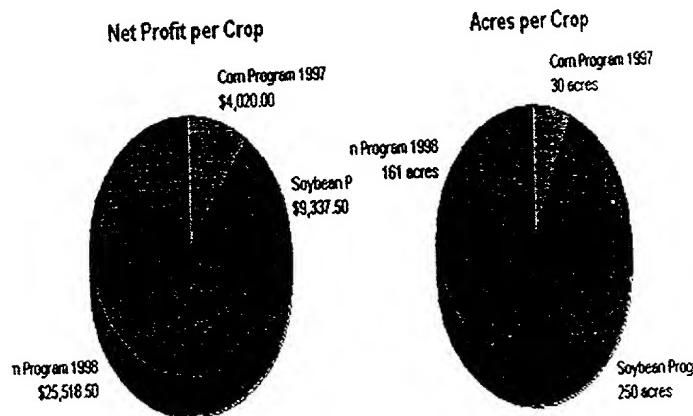


FIGURE 17

Resources

FIGURE 18

Scenario 1:			Scenario 2:		
Ken Dalenberg Test			Dup of Ken Dalenberg Test		
Gross Profit: \$29,078.45			Gross Profit: \$61,899.50		
Crops			Crops		
Name	Acres	Net Profit	Name	Acres	Net Profit
Corn Program 1997	40	\$5,360.00	Corn Program 1997	448	\$60,032.00
Soybean Program 1997	515	\$19,235.25	Soybean Program 1997	50	\$1,867.50
Soybean Program 1998	0	\$0.00	Soiltest Program	0	\$0.00
Soiltest Program	0	\$0.00	Kens Soybean Contract (Soybean Program 1997)	0	\$0.00
Kens Soybean Contract (Soybean Program 1997)	0	\$0.00			
Test Contract (Soybean Program 1997)	24	\$4,483.20			
Fields			Fields		
Name	Size	Crop Planted	Name	Size	Crop Planted
Bevan: North 80	80	Soybean Program 1997	Bevan: North 80	80	Corn Program 1997
Bevan: South 80	81	Soybean Program 1997	Bevan: South 80	81	Corn Program 1997
Dean: 3800GS	81	Soybean Program 1997	Heartland: Heartland West	44	Corn Program 1997
Heartland:			Heartland: Heartland East	30	Corn Program 1997
Heartland West	44	Soybean Program 1997	Hodge: Hodge 42	40	Corn Program 1997
Heartland:			Hodge: Hodge S 84	82	Corn Program 1997
Heartland East	30	Soybean Program 1997	Hume: Hume Back 50	50	Soybean Program 1997
Hodge: Hodge 42	40	Corn Program 1997	Hume: Hume Front 38	38	Corn Program 1997
Hodge: Hodge S 84	82	Soybean Program 1997	Zindars: Zindars West 31	29	Corn Program 1997
Hume: Hume Back 50	50	Soybean Program 1997	Zindars: Zindars East 27	24	Corn Program 1997
Hume: Hume Front 40	38	Soybean Program 1997			
Zindars: Zindars	20	Soybean Program 1997			
Resources					
Name	Used	Unused			

FIGURE 19

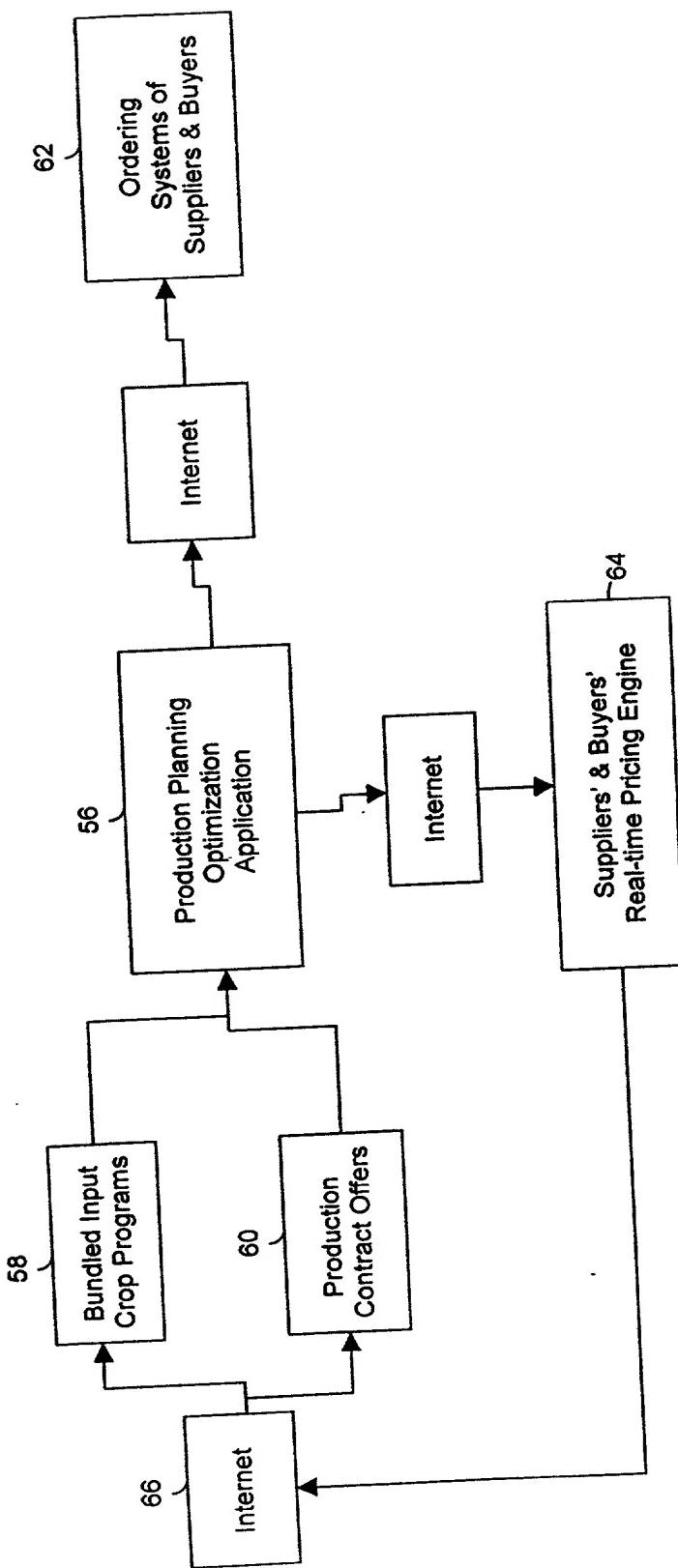


FIGURE 20